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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,926	12/19/2001	Lan Chen	217392US2	8879
22850 75	590 04/18/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			PAN, YUWEN	
1940 DUKE ST ALEXANDRIA			ART UNIT PAPER NUMBER	
			2682	
			DATE MAILED: 04/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			- 13
	Application No.	Applicant(s)	
Office Action Commence	10/020,926	CHEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Yuwen Pan	2682	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 29 D	ecember 2004.		
	action is non-final.		
3) Since this application is in condition for alloware closed in accordance with the practice under E	nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 21-38 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 21-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) acc			
Applicant may not request that any objection to the	<u> </u>	` •	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)	_		
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)	

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Response to Arguments

1. Applicant's arguments with respect to claim 21-38 have been considered but are moot in view of the new ground(s) of rejection.

2. The examiner acknowledges that claim 1-20 has been canceled without prejudice and claims 21-38 are newly added.

DETAILED ACTION

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 21, 30, 29 and 38, are rejected under 35 U.S.C. 102(e) as being anticipated by Cerwall et al (US006868277B1).

Per claim 21 and 30, Cerwall discloses a resource allocation method for a base station to allocate a new radio resource to a link between the base station and a requesting mobile station in a cell site of the base station (figure), comprising the steps of: causing the base station to detect use-state information of radio resources and priority information of mobile stations using the same radio resource of both the base station of concern and neighboring base stations (column 11 and lines 4-10); causing the base station to determine whether a direction of link data transmission related to the non-allocated radio resource is the same as a direction of link data transmission related to an allocated radio resource in one of the cell sites of the neighboring base stations(1column 2 and lines 17-28); and causing the base station to allocate a new radio

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resource to the link between the base station of concern and the requesting mobile station based on both the use-state information and the priority information in said detecting step and a result of the determination in said determining step(column 2 and lines 45-58).

Per claims 29 and 38, Cerwall further teaches that wherein respective identifications of the neighboring base stations are predetermined and recorded, in advance, in the base station of concern (see figure 4(b), column 11 and lines 12-37).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 22-28, and 31-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cerwall (US006868277B1) in view of Bhatia et al (US006112101A).

Per claims 22 and 31, Cerwall further teaches the steps of causing the base station to determine whether there is a non-allocated radio resource in the cell site of the base station of concern (column 9 and lines 1-15); causing the base station to determine whether the non-allocated ratio resource is not in use in the respective cell sites of the neighboring base stations (see figure 4 (b)); causing the base station to determine whether the direction of link data transmission related to the non-allocated radio resource is the same as the direction of link data transmission related to an allocated radio resource in one of the cell sites of the neighboring base stations (figure 4 (c) and item E); causing the base station to determine whether allocation of the non-allocated radio

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resource in the cell site of the base station of concern to the link is possible (figure 4 and item 440). Cerwall doesn't teach the steps of causing the base station to determine whether a level of priority of the requesting mobile station is higher than a level of priority of each of the mobile stations using the radio resources allocated. Bhatia discloses the steps of causing the base station to determine whether a level of priority of the requesting mobile station is higher than a level of priority of each of the mobile stations using the radio resources allocated (see column 2 and lines 38-64). It would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teaching of Bhatia with Cerwall's system such that the traffic resources will be used more efficiently at a reduced cost to the mobile subscriber.

Per claims 23 and 32, Bhatia further teaches that a radio network controller maintains a radio resource management table, and, in said detecting step, the base station of concern detects the use-state information and the priority information from the radio resource management table of the radio network controller by sending an inquiry from the base station of concern to the radio network controller (see figure 3 and 4, column 4 and lines 9-55).

Per claims 24 and 33, Bhatia further teaches that a radio network controller maintains a radio resource management table, and, when the radio resource allocation and radio resource releasing are performed, the base station of concern transmits a radio resource notification to the radio network controller so that the radio resource management table is updated (see column 4 and lines 23-33).

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Per claims 25, 26 and 34, 35, Bhatia further teaches that each of the base station of concern and the neighboring base stations maintains the use-state information of that base station and the priority information of the mobile stations related to that base station, and, in said detecting step, the base station of concern detects the use-state information and the priority information from the respective neighboring base stations by sending an inquiry from the base station of concern to each of the respective neighboring base stations, when transmitting the inquiry the use-station information or the priority information between the base station of concern and each of the neighboring base stations, a dedicated radio channel is used as a path of the data transmission (see figure 3 and 4 and column 4 and lines 9-41).

Per claims 27, 28 and 36, 37, Bhatia further teaches that wherein each of the base station of concern and the neighboring base stations maintains the use-state information of that base station and the priority information of the mobile stations related to that base station, and, when an inquiry from one of the neighboring base stations is received at the base station of concern, the base station of concern transmits to said one of the neighboring base stations the use-state information and the priority information both related to the base station of concern, when transmitting the use-station information or the priority information between the base station of concern and said one of the neighboring base stations, a dedicated radio channel is used as a path of the data transmission (see figure 3 and 4 and column 4 and lines 9-41).

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 703-305-7372. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yuwen Pan

4/10/05

' VIVIAN CHIN

SUPERVISORY PATENT EXAMINER
1900-HIPLORY CENTER 2600